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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 874
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Soggetti	Programming languages (Electronic computers) Computer programming Database management Artificial intelligence Programming Languages, Compilers, Interpreters Programming Techniques Database Management Artificial Intelligence
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	A substitution operation for constraints -- Contradicting conventional wisdom in constraint satisfaction -- Nogood backmarking with min-conflict repair in constraint satisfaction and optimization -- Global consistency for continuous constraints -- Locally simultaneous constraint satisfaction -- Analyzing and debugging hierarchies of multi-way local propagation constraints -- Inferring 3-dimensional constraints with DEVI -- Beyond finite domains -- QUAD-CLP(R): Adding the power of quadratic constraints -- Applications in constraint logic programming with strings -- Some methodological issues in the design of CIAO, a generic, parallel concurrent constraint logic programming system -- Encapsulated search and constraint programming in Oz -- Towards a concurrent semantics based analysis of CC and CLP -- CC programs with both in- and non-determinism: A concurrent semantics -- Efficient and complete tests for database

integrity constraint checking -- Linear vs. polynomial constraints in database query languages -- Foundations of aggregation constraints -- Constraint-generating dependencies -- Constraint objects -- Specification and verification of constraint-based dynamic systems -- GSAT and dynamic backtracking -- Foundations of indefinite constraint databases -- Set constraints and set-based analysis -- On the design of constraint satisfaction problems -- Experiences with constraint-based array dependence analysis -- Set constraints: Results, applications and future directions -- Logic-based methods for optimization -- Panel session: Commercial Applications of Constraint programming.

Sommario/riassunto

This volume is the proceedings of the Second International Workshop on the Principles and Practice of Constraint Programming, held at Rosario, Orcas Island, Washington, USA in May 1994 in cooperation with AAI and ALP. The volume contains 27 full revised papers selected from 87 submissions as well as a summary of a panel session on commercial applications of constraint programming. The contributions cover a broad range of topics including constraint programming languages, algorithms for constraint satisfaction and entailment, and constraints and their relation to fields such as artificial intelligence, databases, operations research, problem solving, and user interfaces.
